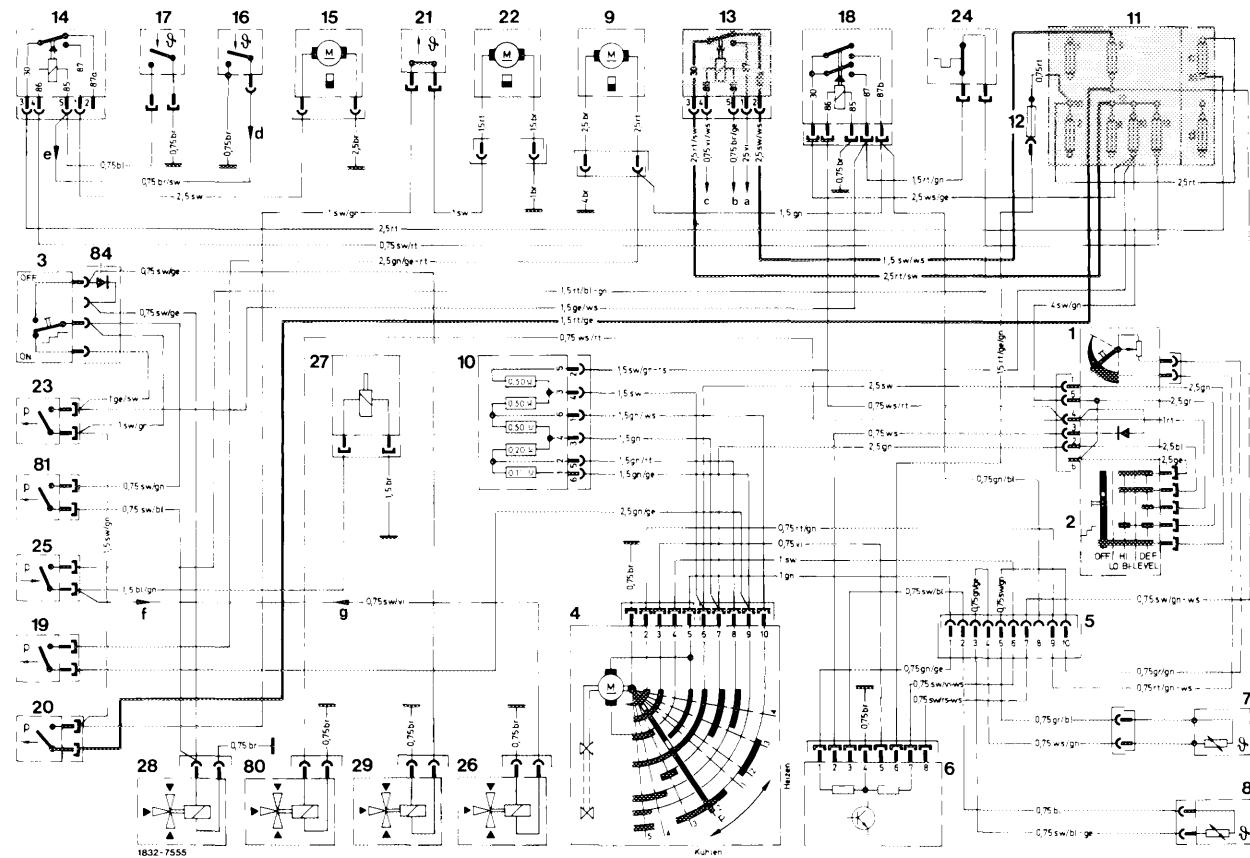


Wiring diagram 1

Blower control (regulating valve in position "P 2")

1 Temperature dial
 2 Pushbutton switch
 3 "ON/OFF" switch refrigerant compressor
 4 Regulating valve
 5 10-point plug connection for tester
 6 Amplifier
 7 In-car temperature sensor
 8 Ambient temperature sensor
 9 Blower
 10 Pre-resistance for blower
 11 Main fuse box
 Fuse 5 : 8 amps (standard fuse 86)
 Fuse 10 : 16 amps
 Fuse 12 : 8 amps
 Fuse c : 16 amps
 12 Additional fuse for amplifier (2 amps)
 13 Relay air conditioning system
 14 Relay auxiliary fan
 15 Auxiliary fan
 16 Temperature switch 100 °C (212 °F)
 in thermostat housing for auxiliary fan
 17 Temperature switch 62 °C (142 °F)
 in receiver dehydrator for auxiliary fan
 18 Double contact relay
 19 Vacuum switch
 (main switch, closes with vacuum higher than
 175 mbar or 0.18 atu)

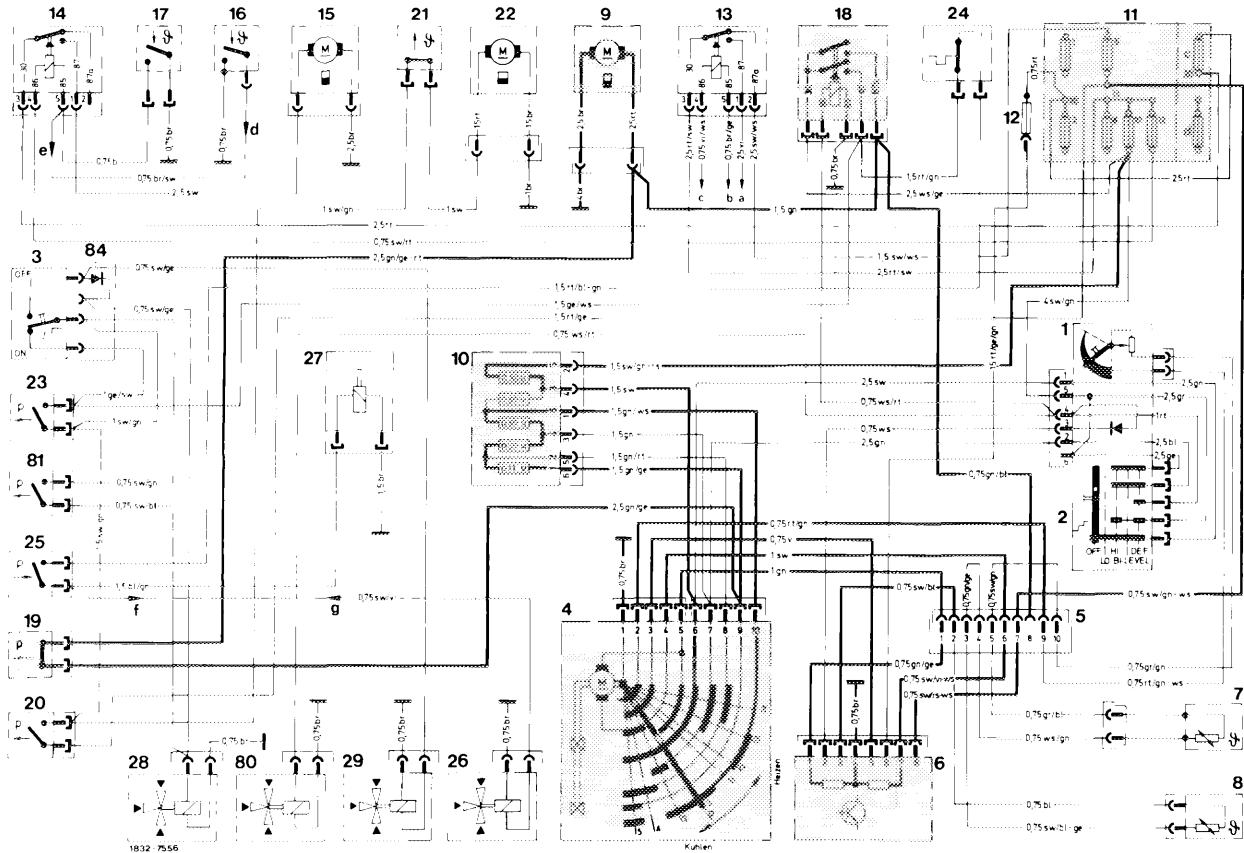
20 Vacuum switch (refrigerant compressor, closes with
 vacuum higher than 78.5 mbar or 0.08 atu)
 21 Temperature switch for heating water pump (22)
 16 °C (61 °F) ON, 26 °C (79 °F) OFF
 22 Heating water pump
 23 Vacuum switch (for refrigerant compressor, closes
 with vacuum higher than 78.5 mbar or 0.08 atu,
 at "BI-LEVEL" only)
 24 ETR-switch 2 °C (36 °F)
 25 Pressure switch refrigerant compressor
 ON 2.6 bar gauge pressure (2.6 atü)
 OFF 2.0 bar gauge pressure (2.0 atü)
 26 Switchover valve for constant speed (engine 110.984 only)
 27 Electromagnetic clutch for refrigerant compressor
 28 Switchover valve for vacuum element of legroom flaps
 29 Switchover valve for vacuum element of fresh
 air-recirculated air flap
 30 Switchover valve "BI-LEVEL" (at "DEF")
 31 Vacuum switch (closes with vacuum higher than
 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 32 Diode
 a Cable connector starter terminal 50
 b Starter lockout and back-up lamp switch
 c Ignition starter switch terminal 50
 d Via relay ignition switchover terminal 85 engine
 e Via relay decoupling terminal 30 110.984 only
 f Via relay ignition switchover terminal 87a (countries with
 g Via relay ignition switchover terminal 30 emission control)



Wiring diagram 1a
Refrigerant compressor control

1 Temperature dial
 2 Pushbutton switch
 3 "ON/OFF" switch refrigerant compressor
 4 Regulating valve
 5 10-point plug connection for tester
 6 Amplifier
 7 In-car temperature sensor
 8 Ambient temperature sensor
 9 Blower
 10 Pre-resistance for blower
 11 Main fuse box
 Fuse 5 : 8 amps (standard fuse 86)
 Fuse 10 : 16 amps
 Fuse 12 : 8 amps
 Fuse c : 16 amps
 12 Additional fuse for amplifier (2 amps)
 13 Relay air conditioning system
 14 Relay auxiliary fan
 15 Auxiliary fan
 16 Temperature switch 100 °C (212 °F)
 in thermostat housing for auxiliary fan
 17 Temperature switch 62 °C (142 °F)
 in receiver dehydrator for auxiliary fan
 18 Double contact relay
 19 Vacuum switch
 (main switch, closes with vacuum higher than
 175 mbar or 0.18 atu)

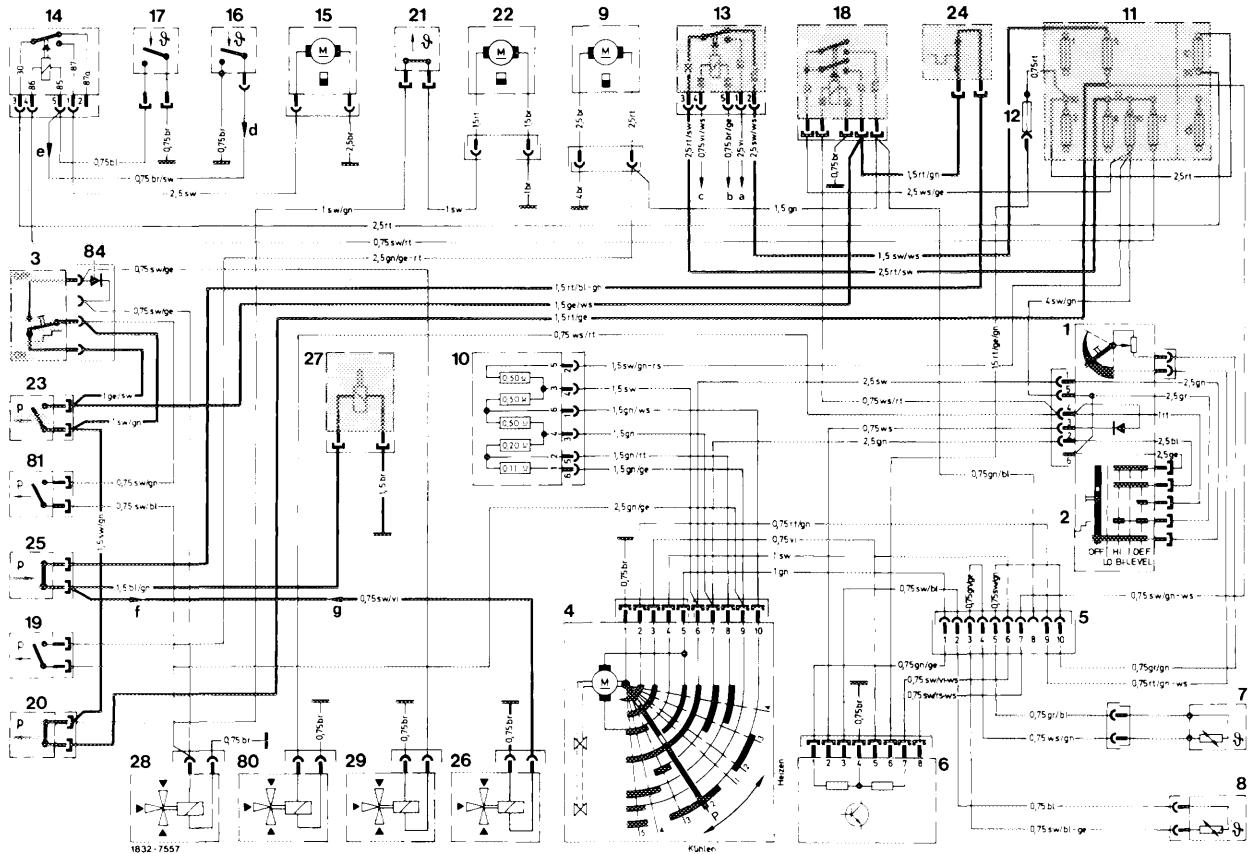
20 Vacuum switch (refrigerant compressor, closes with
 vacuum higher than 78.5 mbar or 0.08 atu)
 21 Temperature switch for heating water pump (22)
 16 °C (61 °F) ON, 26 °C (79 °F) OFF
 22 Heating water pump
 23 Vacuum switch (for refrigerant compressor, closes
 with vacuum higher than 78.5 mbar or 0.08 atu,
 at "BI-LEVEL" only)
 24 ETR-switch 2 °C (36 °F)
 25 Pressure switch refrigerant compressor
 ON 2.6 bar gauge pressure (2.6 atü)
 OFF 2.0 bar gauge pressure (2.0 atü)
 26 Switchover valve for constant speed (engine 110.984 only)
 27 Electromagnetic clutch for refrigerant compressor
 28 Switchover valve for vacuum element of legroom flaps
 29 Switchover valve for vacuum element of fresh
 air-recirculated air flap
 80 Switchover valve "BI-LEVEL" (at "DEF")
 81 Vacuum switch (closes with vacuum higher than
 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 84 Diode
 a Cable connector starter terminal 50
 b Starter lockout and back-up lamp switch
 c Ignition starter switch terminal 50
 d Via relay ignition switch terminal 85 engine
 e Via relay decoupling terminal 30 110.984 only
 f Via relay ignition switch terminal 87a (countries with
 g Via relay ignition switch terminal 30 emission control)



Wiring diagram 2

Blower control, position "park" and "AUTO-LO" (regulating valve in position "P 2")

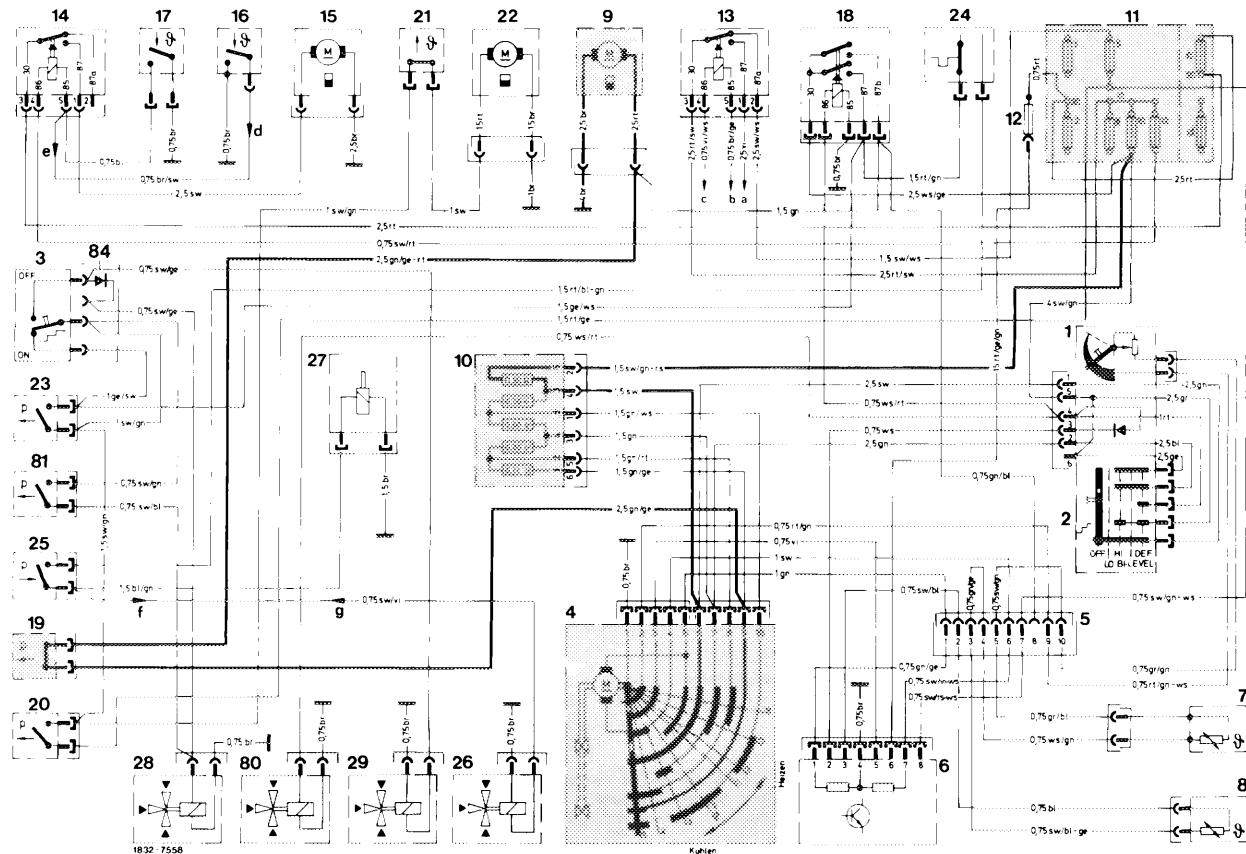
- 1 Temperature dial
- 2 Pushbutton switch
- 3 "ON/OFF" switch refrigerant compressor
- 4 Regulating valve
- 5 10-point plug connection for tester
- 6 Amplifier
- 7 In-car temperature sensor
- 8 Ambient temperature sensor
- 9 Blower
- 10 Pre-resistance for blower
- 11 Main fuse box
 - Fuse 5 : 8 amps (standard fuse 86)
 - Fuse 10 : 16 amps
 - Fuse 12 : 8 amps
 - Fuse c : 16 amps
- 12 Additional fuse for amplifier (2 amps)
- 13 Relay air conditioning system
- 14 Relay auxiliary fan
- 15 Auxiliary fan
- 16 Temperature switch 100 °C (212 °F) in thermostat housing for auxiliary fan
- 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
- 18 Double contact relay
- 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
- 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
- 21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
- 22 Heating water pump
- 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 24 ETR-switch 2 °C (36 °F)
- 25 Pressure switch refrigerant compressor
 - ON 2.6 bar gauge pressure (2.6 atü)
 - OFF 2.0 bar gauge pressure (2.0 atü)
- 26 Switchover valve for constant speed (engine 110.984 only)
- 27 Electromagnetic clutch for refrigerant compressor
- 28 Switchover valve for vacuum element of legroom flaps
- 29 Switchover valve for vacuum element of fresh air-recirculated air flap
- 80 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 84 Diode
 - a Cable connector starter terminal 50
 - b Starter lockout and back-up lamp switch
 - c Ignition starter switch terminal 50
 - d Via relay ignition switchover terminal 85 } engine
 - e Via relay decoupling terminal 30 } 110.984 only
 - f Via relay ignition switchover terminal 87a } (countries with
 - g Via relay ignition switchover terminal 30 } emission control)



Wiring diagram 2

Refrigerant compressor control

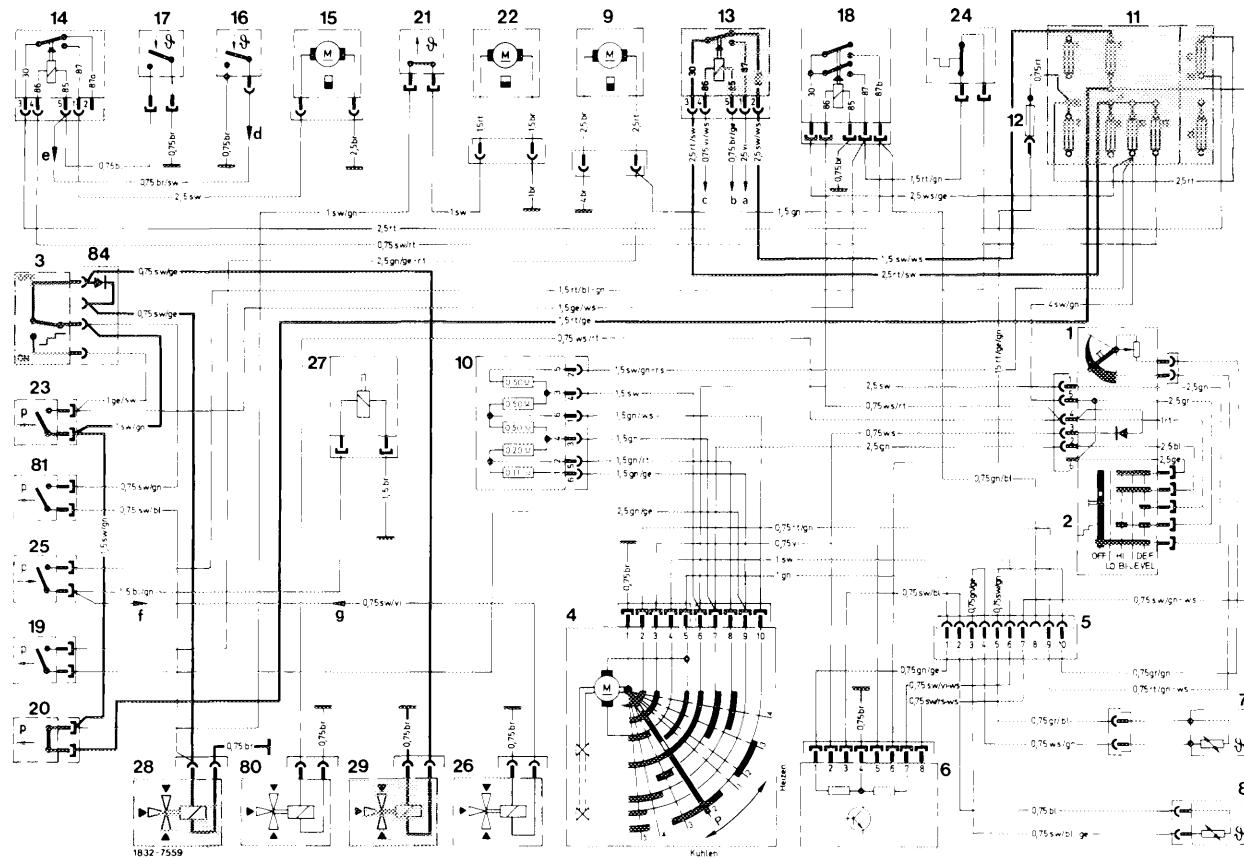
1 Temperature dial	20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
2 Pushbutton switch	21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
3 "ON/OFF" switch refrigerant compressor	22 Heating water pump
4 Regulating valve	23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
5 10-point plug connection for tester	24 ETR-switch 2 °C (36 °F)
6 Amplifier	25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atü) OFF 2.0 bar gauge pressure (2.0 atü)
7 In-car temperature sensor	26 Switchover valve for constant speed (engine 110.984 only)
8 Ambient temperature sensor	27 Electromagnetic clutch for refrigerant compressor
9 Blower	28 Switchover valve for vacuum element of legroom flaps
10 Pre-resistance for blower	29 Switchover valve for vacuum element of fresh air-recirculated air flap
11 Main fuse box	80 Switchover valve "BI-LEVEL" (at "DEF")
Fuse 5 : 8 amps (standard fuse 86)	81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
Fuse 10 : 16 amps	84 Diode
Fuse 12 : 8 amps	a Cable connector starter terminal 50
Fuse c : 16 amps	b Starter lockout and back-up lamp switch
12 Additional fuse for amplifier (2 amps)	c Ignition starter switch terminal 50
13 Relay air conditioning system	d Via relay ignition switchover terminal 85 / engine
14 Relay auxiliary fan	e Via relay decoupling terminal 30 / 110.984 only
15 Auxiliary fan	f Via relay ignition switchover terminal 87a (countries with
16 Temperature switch 100 °C (212 °F) in thermostat housing for auxiliary fan	g Via relay ignition switchover terminal 30 emission control)
17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan	
18 Double contact relay	
19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)	



Wiring diagram 3

Blower control, stage 5 "LO" (regulating valve in position 5)

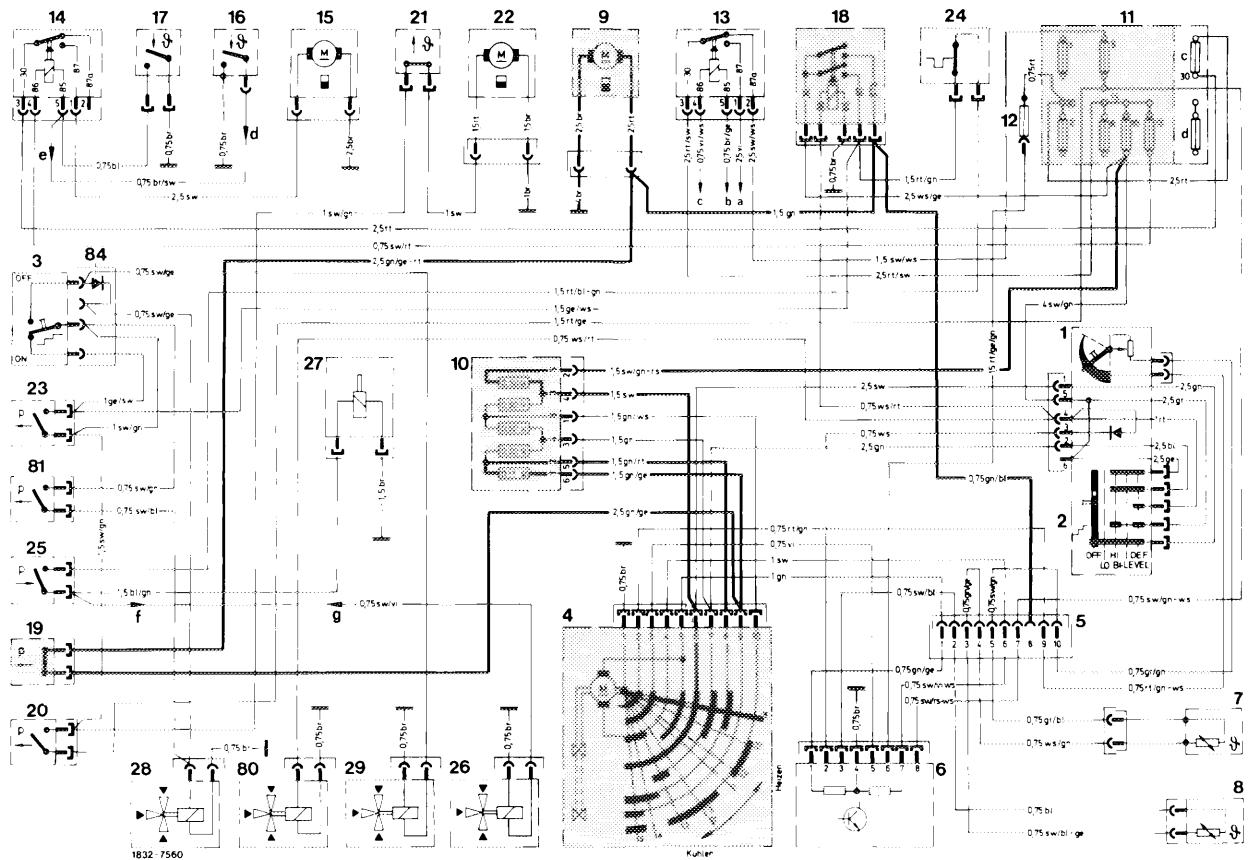
1 Temperature dial	20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
2 Pushbutton switch	21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
3 "ON/OFF" switch refrigerant compressor	22 Heating water pump
4 Regulating valve	23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
5 10-point plug connection for tester	24 ETR-switch 2 °C (36 °F)
6 Amplifier	25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atü) OFF 2.0 bar gauge pressure (2.0 atü)
7 In-car temperature sensor	26 Switchover valve for constant speed (engine 110.984 only)
8 Ambient temperature sensor	27 Electromagnetic clutch for refrigerant compressor
9 Blower	28 Switchover valve for vacuum element of legroom flaps
10 Pre-resistance for blower	29 Switchover valve for vacuum element of fresh air-recirculated air flap
11 Main fuse box	80 Switchover valve "BI-LEVEL" (at "DEF")
Fuse 5 : 8 amps (standard fuse 86)	81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
Fuse 10 : 16 amps	84 Diode
Fuse 12 : 8 amps	a Cable connector starter terminal 50
Fuse c : 16 amps	b Starter lockout and back-up lamp switch
12 Additional fuse for amplifier (2 amps)	c Ignition starter switch terminal 50
13 Relay air conditioning system	d Via relay ignition switchover terminal 85 } engine
14 Relay auxiliary fan	e Via relay decoupling terminal 30 } 110.984 only
15 Auxiliary fan	f Via relay ignition switchover terminal 87a } (countries with
16 Temperature switch 100 °C (212 °F) in thermostat housing for auxiliary fan	g Via relay ignition switchover terminal 30 } emission control
17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan	
18 Double contact relay	
19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)	



Wiring diagram 4

Control for switchover valves 28 and 29 (switch 3 for refrigerant compressor at "OFF")

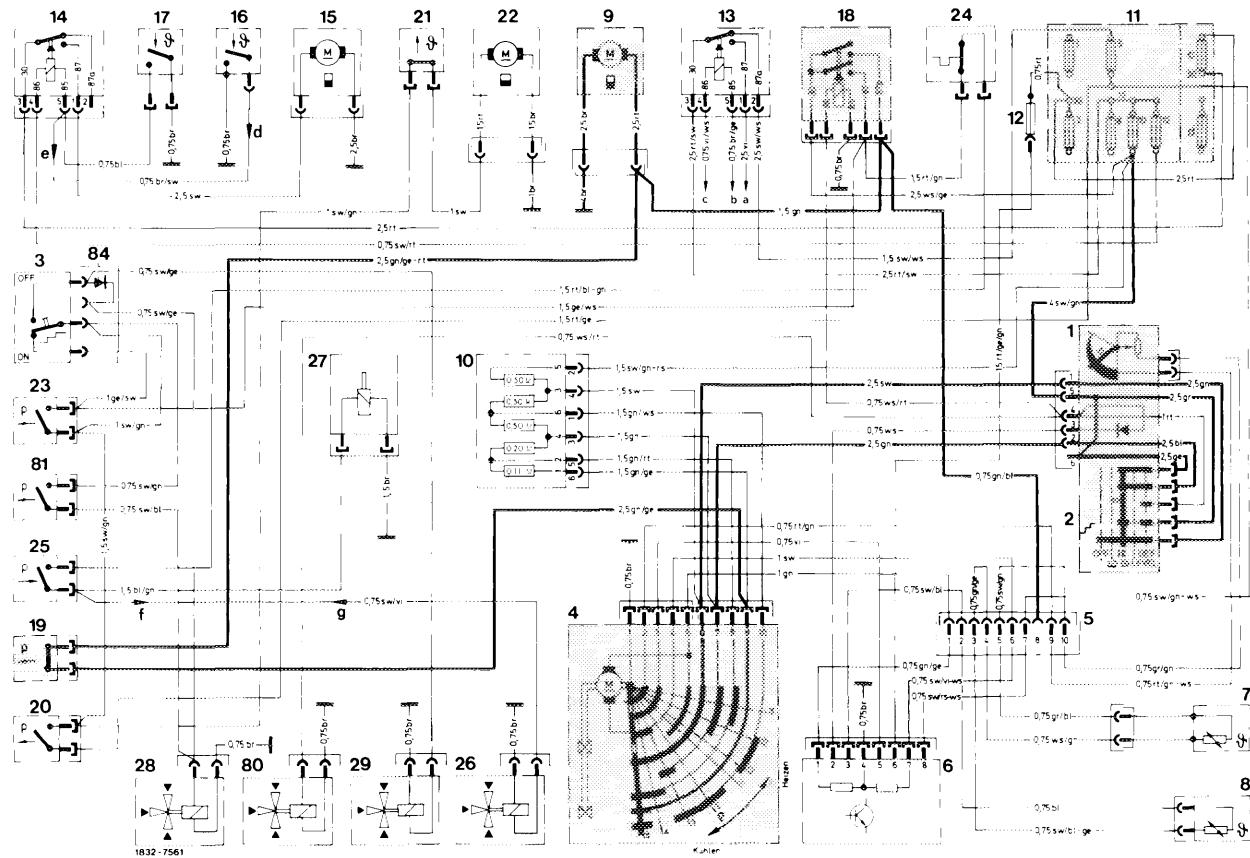
1 Temperature dial	20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)	
2 Pushbutton switch	21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF	
3 "ON/OFF" switch refrigerant compressor	22 Heating water pump	
4 Regulating valve	23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)	
5 10-point plug connection for tester	24 ETR-switch 2 °C (36 °F)	
6 Amplifier	25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atü) OFF 2.0 bar gauge pressure (2.0 atü)	
7 In-car temperature sensor	26 Switchover valve for constant speed (engine 110.984 only)	
8 Ambient temperature sensor	27 Electromagnetic clutch for refrigerant compressor	
9 Blower	28 Switchover valve for vacuum element of legroom flaps	
10 Pre-resistance for blower	29 Switchover valve for vacuum element of fresh air-recirculated air flap	
11 Main fuse box	80 Switchover valve "BI-LEVEL" (at "DEF")	
Fuse 5 : 8 amps (standard fuse 86)	81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)	
Fuse 10 : 16 amps	84 Diode	
Fuse 12 : 8 amps	a Cable connector starter terminal 50	
Fuse c : 16 amps	b Starter lockout and back-up lamp switch	
12 Additional fuse for amplifier (2 amps)	c Ignition starter switch terminal 50	
13 Relay air conditioning system	d Via relay ignition switch terminal 85	
14 Relay auxiliary fan	e Via relay decoupling terminal 30	engine 110.984 only
15 Auxiliary fan	f Via relay ignition switch terminal 87a	(countries with emission control)
16 Temperature switch 100 °C (212 °F) in thermostat housing for auxiliary fan	g Via relay ignition switch terminal 30	
17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan		
18 Double contact relay		
19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)		



Wiring diagram 5

Blower control, stage 4 "LO" (regulating valve in position 4)

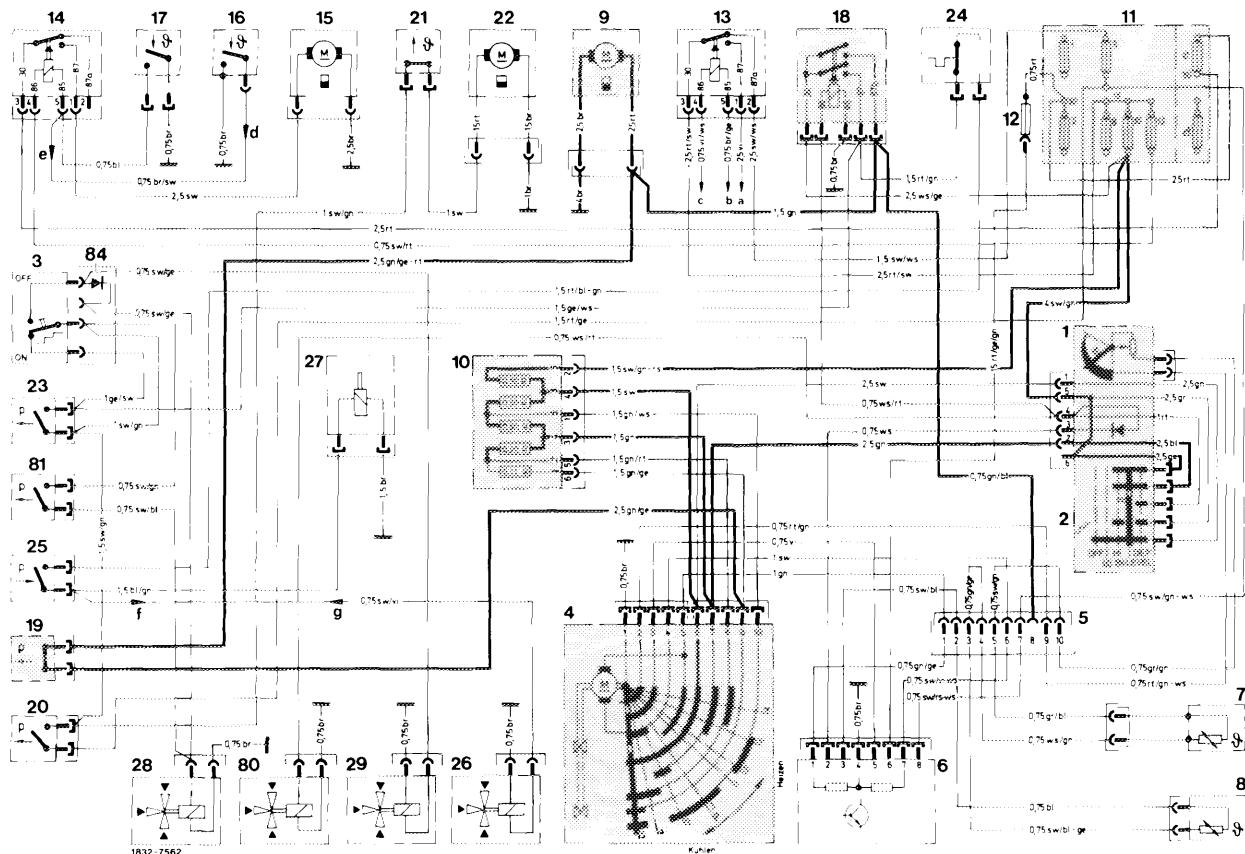
- 1 Temperature dial
- 2 Pushbutton switch
- 3 "ON/OFF" switch refrigerant compressor
- 4 Regulating valve
- 5 10-point plug connection for tester
- 6 Amplifier
- 7 In-car temperature sensor
- 8 Ambient temperature sensor
- 9 Blower
- 10 Pre-resistance for blower
- 11 Main fuse box
 - Fuse 5 : 8 amps (standard fuse 86)
 - Fuse 10 : 16 amps
 - Fuse 12 : 8 amps
 - Fuse c : 16 amps
- 12 Additional fuse for amplifier (2 amps)
- 13 Relay air conditioning system
- 14 Relay auxiliary fan
- 15 Auxiliary fan
- 16 Temperature switch 100 °C (212 °F)
in thermostat housing for auxiliary fan
- 17 Temperature switch 62 °C (142 °F)
in receiver dehydrator for auxiliary fan
- 18 Double contact relay
- 19 Vacuum switch
(main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
- 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
- 21 Temperature switch for heating water pump (22)
16 °C (61 °F) ON, 26 °C (79 °F) OFF
- 22 Heating water pump
- 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 24 ETR-switch 2 °C (36 °F)
- 25 Pressure switch refrigerant compressor
ON 2.6 bar gauge pressure (2.6 atü)
OFF 2.0 bar gauge pressure (2.0 atü)
- 26 Switchover valve for constant speed (engine 110.984 only)
- 27 Electromagnetic clutch for refrigerant compressor
- 28 Switchover valve for vacuum element of legroom flaps
- 29 Switchover valve for vacuum element of fresh air-recirculated air flap
- 80 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 84 Diode
- a Cable connector starter terminal 50
- b Starter lockout and back-up lamp switch
- c Ignition starter switch terminal 50
- d Via relay ignition switchover terminal 85 engine
- e Via relay decoupling terminal 30 110.984 only
- f Via relay ignition switchover terminal 87a (countries with emission control)
- g Via relay ignition switchover terminal 30 (countries with emission control)



Wiring diagram 6

Blower control, stage 3 "HI" (regulating valve in position 5)

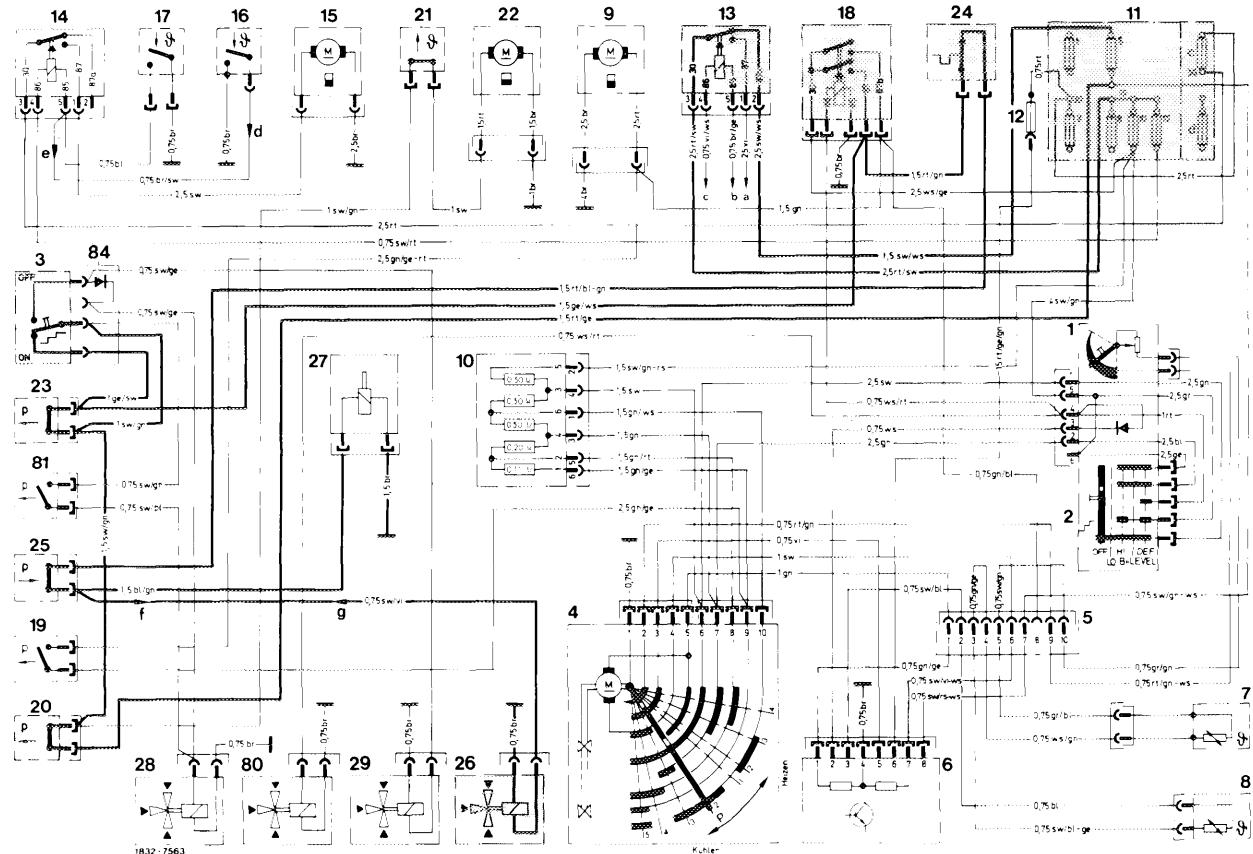
1 Temperature dial	20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
2 Pushbutton switch	21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
3 "ON/OFF" switch refrigerant compressor	22 Heating water pump
4 Regulating valve	23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
5 10-point plug connection for tester	24 ETR-switch 2 °C (36 °F)
6 Amplifier	25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu) OFF 2.0 bar gauge pressure (2.0 atu)
7 In-car temperature sensor	26 Switchover valve for constant speed (engine 110.984 only)
8 Ambient temperature sensor	27 Electromagnetic clutch for refrigerant compressor
9 Blower	28 Switchover valve for vacuum element of legroom flaps
10 Pre-resistance for blower	29 Switchover valve for vacuum element of fresh air-recirculated air flap
11 Main fuse box	30 Switchover valve "BI-LEVEL" (at "DEF")
Fuse 5 : 8 amps (standard fuse 86)	81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
Fuse 10 : 16 amps	84 Diode
Fuse 12 : 8 amps	a Cable connector starter terminal 50
Fuse c : 16 amps	b Starter lockout and back-up lamp switch
12 Additional fuse for amplifier (2 amps)	c Ignition starter switch terminal 50
13 Relay air conditioning system	d Via relay ignition switchover terminal 85
14 Relay auxiliary fan	e Via relay decoupling terminal 30
15 Auxiliary fan	f Via relay ignition switchover terminal 87a
16 Temperature switch 100 °C (212 °F) in thermostat housing for auxiliary fan	g Via relay ignition switchover terminal 30
17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan	engine 110.984 only (countries with emission control)
18 Double contact relay	
19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)	



Wiring diagram 7

Blower control, stage 2 "BI-LEVEL" (AC), (regulating valve in position 5)

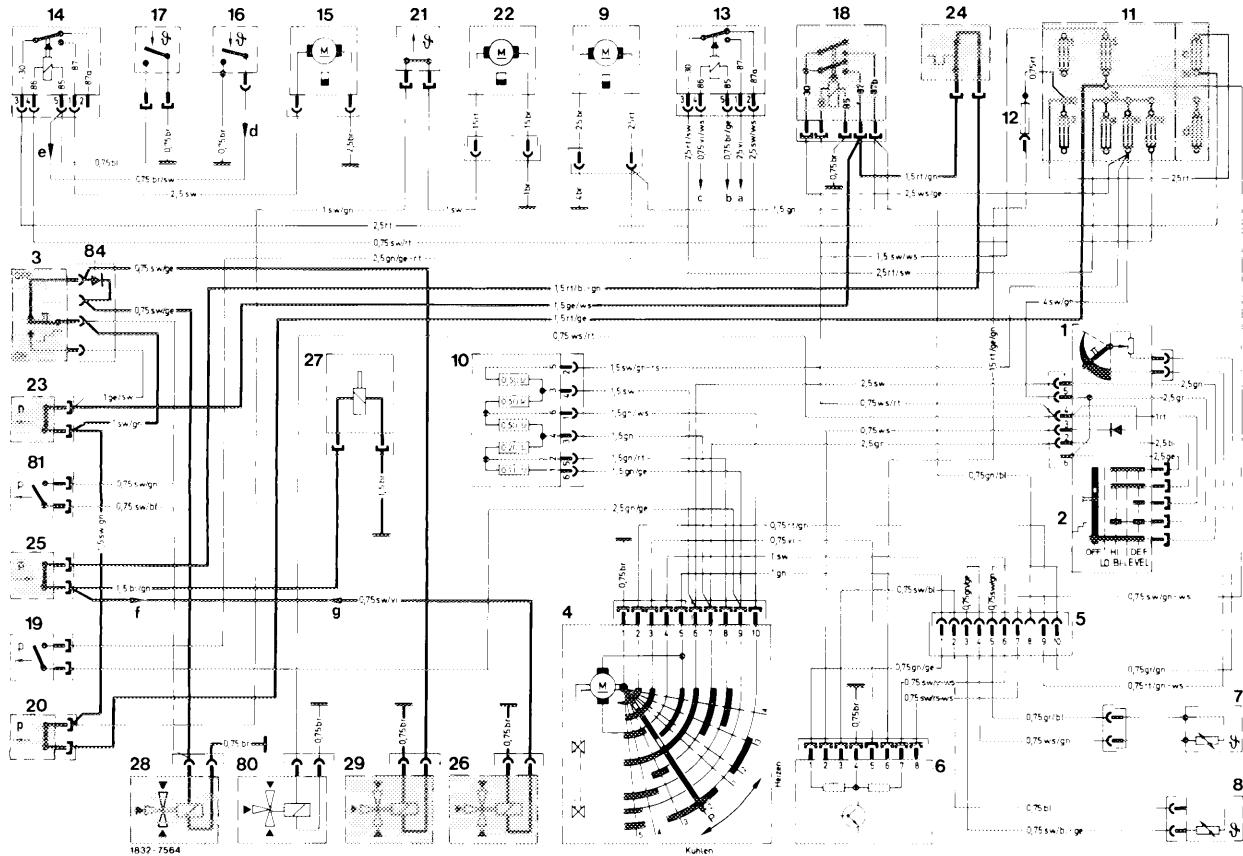
- 1 Temperature dial
- 2 Pushbutton switch
- 3 "ON/OFF" switch refrigerant compressor
- 4 Regulating valve
- 5 10-point plug connection for tester
- 6 Amplifier
- 7 In-car temperature sensor
- 8 Ambient temperature sensor
- 9 Blower
- 10 Pre-resistance for blower
- 11 Main fuse box
 - Fuse 5 : 8 amps (standard fuse 86)
 - Fuse 10 : 16 amps
 - Fuse 12 : 8 amps
 - Fuse c : 16 amps
- 12 Additional fuse for amplifier (2 amps)
- 13 Relay air conditioning system
- 14 Relay auxiliary fan
- 15 Auxiliary fan
- 16 Temperature switch 100 °C (212 °F)
in thermostat housing for auxiliary fan
- 17 Temperature switch 62 °C (142 °F)
in receiver dehydrator for auxiliary fan
- 18 Double contact relay
- 19 Vacuum switch
(main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
- 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
- 21 Temperature switch for heating water pump (22)
16 °C (61 °F) ON, 26 °C (79 °F) OFF
- 22 Heating water pump
- 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 24 ETR-switch 2 °C (36 °F)
- 25 Pressure switch refrigerant compressor
ON 2.6 bar gauge pressure (2.6 atü)
OFF 2.0 bar gauge pressure (2.0 atü)
- 26 Switchover valve for constant speed (engine 110.984 only)
- 27 Electromagnetic clutch for refrigerant compressor
- 28 Switchover valve for vacuum element of legroom flaps
- 29 Switchover valve for vacuum element of fresh air-recirculated air flap
- 80 Switchover valve 'BI-LEVEL' (at "DEF")
- 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 84 Diode
 - a Cable connector starter terminal 50
 - b Starter lockout and back-up lamp switch
 - c Ignition starter switch terminal 50
 - d Via relay ignition switchover terminal 85 engine
 - e Via relay decoupling terminal 30 110.984 only
 - f Via relay ignition switchover terminal 87a (countries with
 - g Via relay ignition switchover terminal 30 emission control)



Wiring diagram 8

Refrigerant compressor control at "BI-LEVEL" (switch 3 for refrigerant compressor at "ON")

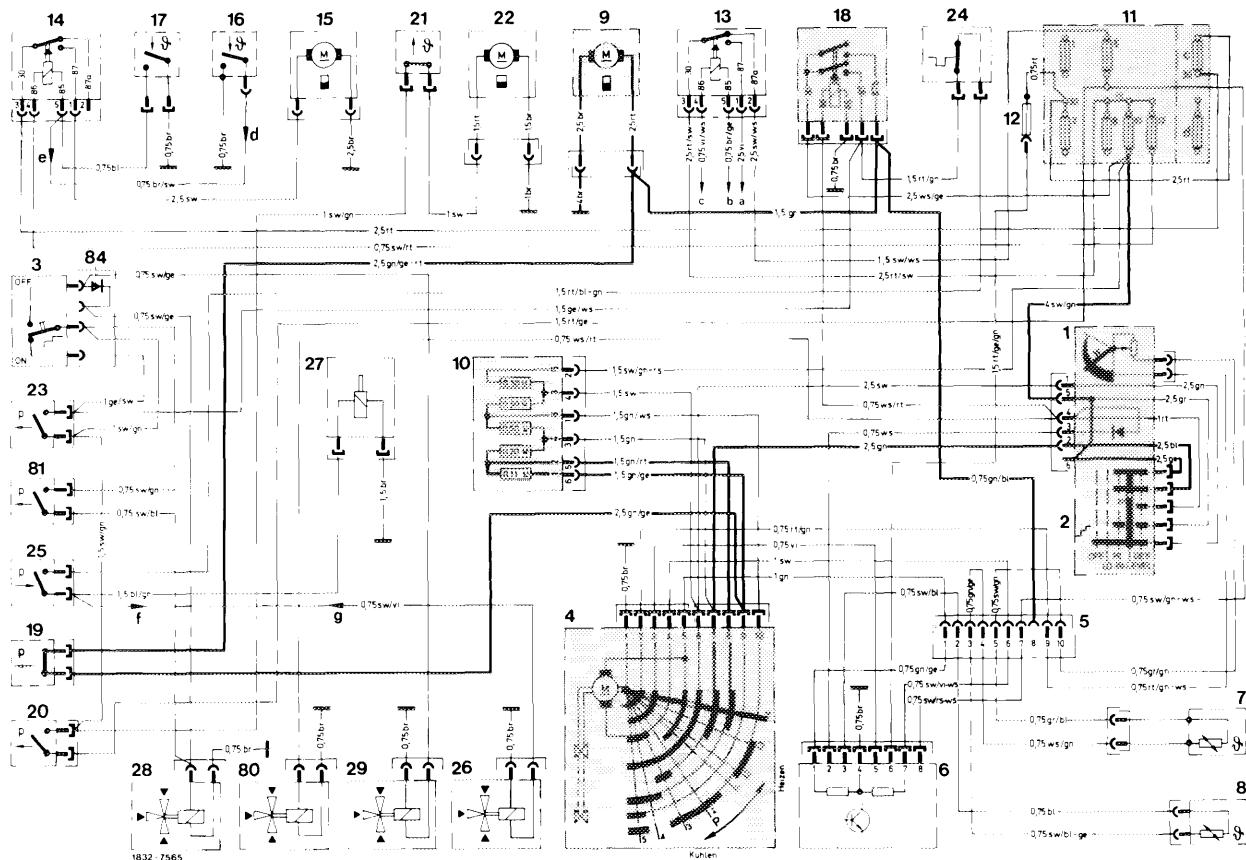
- 1 Temperature dial
- 2 Pushbutton switch
- 3 "ON/OFF" switch refrigerant compressor
- 4 Regulating valve
- 5 10-point plug connection for tester
- 6 Amplifier
- 7 In-car temperature sensor
- 8 Ambient temperature sensor
- 9 Blower
- 10 Pre-resistance for blower
- 11 Main fuse box
 - Fuse 5 : 8 amps (standard fuse 86)
 - Fuse 10 : 16 amps
 - Fuse 12 : 8 amps
 - Fuse c : 16 amps
- 12 Additional fuse for amplifier (2 amps)
- 13 Relay air conditioning system
- 14 Relay auxiliary fan
- 15 Auxiliary fan
- 16 Temperature switch 100 °C (212 °F) in thermostat housing for auxiliary fan
- 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
- 18 Double contact relay
- 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
- 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
- 21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
- 22 Heating water pump
- 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 24 ETR-switch 2 °C (36 °F)
- 25 Pressure switch refrigerant compressor
 - ON 2.6 bar gauge pressure (2.6 atü)
 - OFF 2.0 bar gauge pressure (2.0 atü)
- 26 Switchover valve for constant speed (engine 110.984 only)
- 27 Electromagnetic clutch for refrigerant compressor
- 28 Switchover valve for vacuum element of legroom flaps
- 29 Switchover valve for vacuum element of fresh air-recirculated air flap
- 80 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 84 Diode
 - a Cable connector starter terminal 50
 - b Starter lockout and back-up lamp switch
 - c Ignition starter switch terminal 50
 - d Via relay ignition switchover terminal 85 engine 110.984 only
 - e Via relay decoupling terminal 30 engine 110.984 only
 - f Via relay ignition switchover terminal 87a (countries with emission control)
 - g Via relay ignition switchover terminal 30 (countries with emission control)



Wiring diagram 8 a

Refrigerant compressor control at "BI-LEVEL" (switch 3 for refrigerant compressor at "OFF")

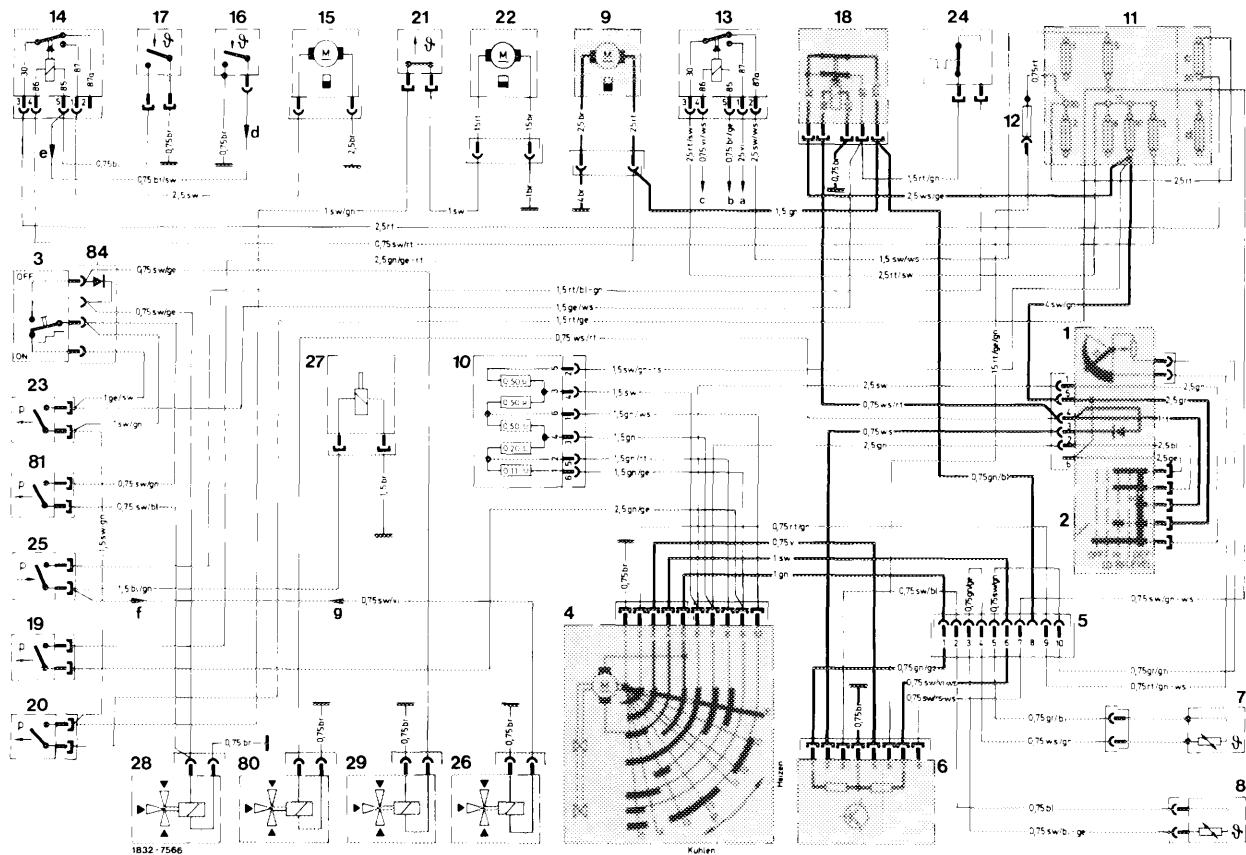
1 Temperature dial
 2 Pushbutton switch
 3 "ON/OFF" switch refrigerant compressor
 4 Regulating valve
 5 10-point plug connection for tester
 6 Amplifier
 7 In-car temperature sensor
 8 Ambient temperature sensor
 9 Blower
 10 Pre-resistance for blower
 11 Main fuse box
 Fuse 5 : 8 amps (standard fuse 86)
 Fuse 10 : 16 amps
 Fuse 12 : 8 amps
 Fuse c : 16 amps
 12 Additional fuse for amplifier (2 amps)
 13 Relay air conditioning system
 14 Relay auxiliary fan
 15 Auxiliary fan
 16 Temperature switch 100 °C (212 °F)
 in thermostat housing for auxiliary fan
 17 Temperature switch 62 °C (142 °F)
 in receiver dehydrator for auxiliary fan
 18 Double contact relay
 19 Vacuum switch
 (main switch, closes with vacuum higher than
 175 mbar or 0.18 atu)
 20 Vacuum switch (refrigerant compressor, closes with
 vacuum higher than 78.5 mbar or 0.08 atu)
 21 Temperature switch for heating water pump (22)
 16 °C (61 °F) ON, 26 °C (79 °F) OFF
 22 Heating water pump
 23 Vacuum switch (for refrigerant compressor, closes
 with vacuum higher than 78.5 mbar or 0.08 atu,
 at 'BI-LEVEL' only)
 24 ETR-switch 2 °C (36 °F)
 25 Pressure switch refrigerant compressor
 ON 2.6 bar gauge pressure (2.6 atü)
 OFF 2.0 bar gauge pressure (2.0 atü)
 26 Switchover valve for constant speed (engine 110.984 only)
 27 Electromagnetic clutch for refrigerant compressor
 28 Switchover valve for vacuum element of legroom flaps
 29 Switchover valve for vacuum element of fresh
 air-recirculated air flap
 80 Switchover valve "BI-LEVEL" (at "DEF")
 81 Vacuum switch (closes with vacuum higher than
 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 84 Diode
 a Cable connector starter terminal 50
 b Starter lockout and back-up lamp switch
 c Ignition starter switch terminal 50
 d Via relay ignition switchover terminal 85 engine
 e Via relay decoupling terminal 30 110.984 only
 f Via relay ignition switchover terminal 87a (countries with
 g Via relay ignition switchover terminal 30 emission control)



Wiring diagram 9

Blower control, stage 2 "BI-LEVEL" (heat), (regulating valve in position 4)

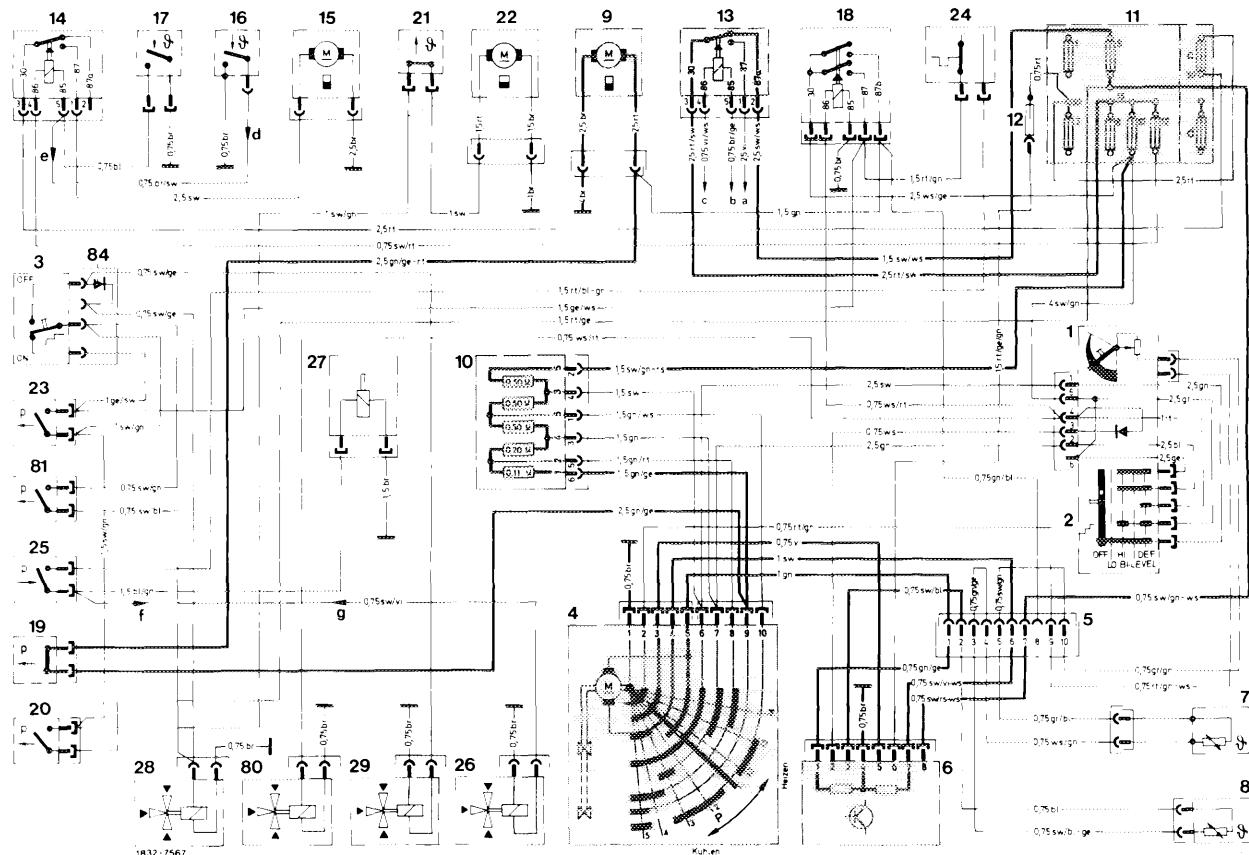
1 Temperature dial	20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
2 Pushbutton switch	21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
3 "ON/OFF" switch refrigerant compressor	22 Heating water pump
4 Regulating valve	23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
5 10-point plug connection for tester	24 ETR-switch 2 °C (36 °F)
6 Amplifier	25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atü) OFF 2.0 bar gauge pressure (2.0 atü)
7 In-car temperature sensor	26 Switchover valve for constant speed (engine 110.984 only)
8 Ambient temperature sensor	27 Electromagnetic clutch for refrigerant compressor
9 Blower	28 Switchover valve for vacuum element of legroom flaps
10 Pre-resistance for blower	29 Switchover valve for vacuum element of fresh air-recirculated air flap
11 Main fuse box	80 Switchover valve "BI-LEVEL" (at "DEF")
Fuse 5 : 8 amps (standard fuse 86)	81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
Fuse 10 : 16 amps	84 Diode
Fuse 12 : 8 amps	a Cable connector starter terminal 50
Fuse c : 16 amps	b Starter lockout and back-up lamp switch
12 Additional fuse for amplifier (2 amps)	c Ignition starter switch terminal 50
13 Relay air conditioning system	d Via relay ignition switchover terminal 85
14 Relay auxiliary fan	e Via relay decoupling terminal 30
15 Auxiliary fan	f Via relay ignition switchover terminal 87a
16 Temperature switch 100 °C (212 °F) in thermostat housing for auxiliary fan	g Via relay ignition switchover terminal 30
17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan	engine 110.984 only (countries with emission control)
18 Double contact relay	
19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)	



Wiring diagram 10

Blower control, stage 4 "DEF" (regulating valve in position 4)

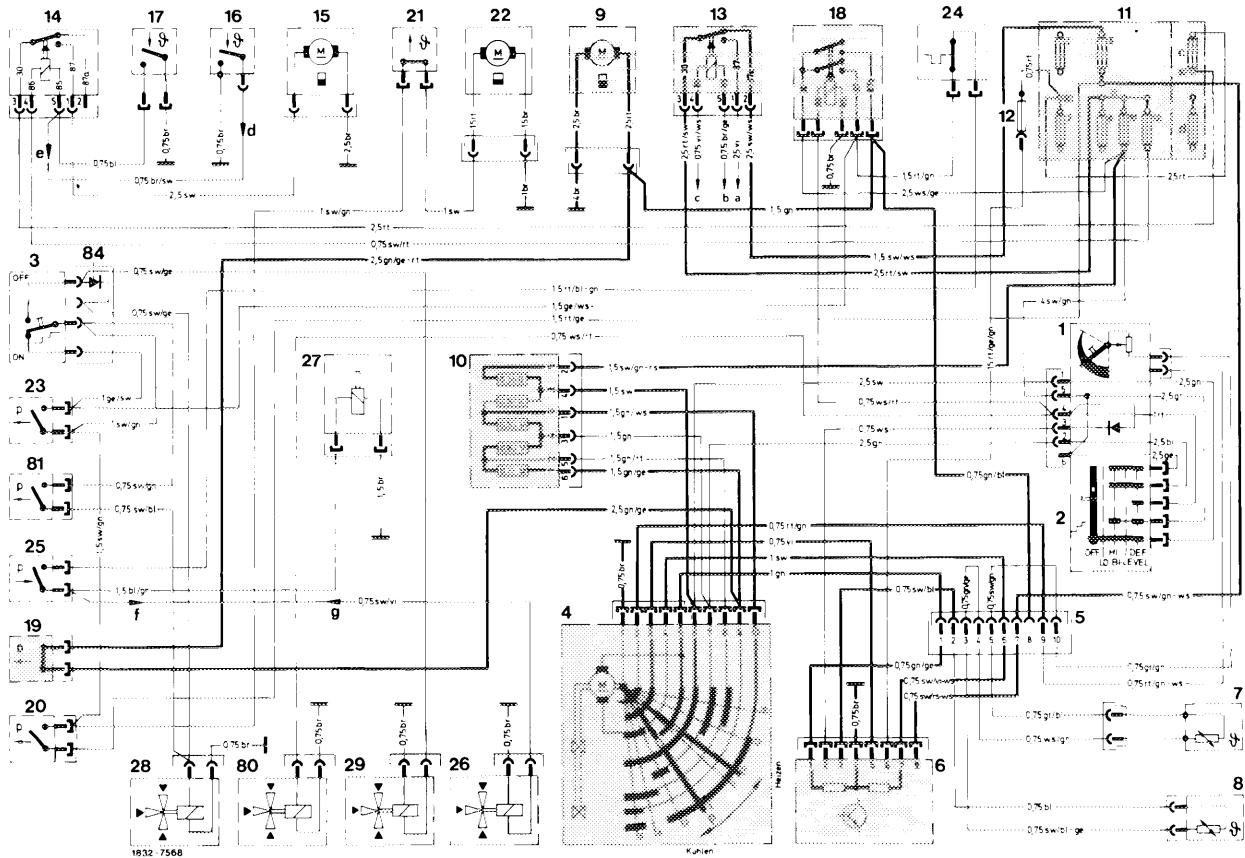
- 1 Temperature dial
- 2 Pushbutton switch
- 3 "ON/OFF" switch refrigerant compressor
- 4 Regulating valve
- 5 10-point plug connection for tester
- 6 Amplifier
- 7 In-car temperature sensor
- 8 Ambient temperature sensor
- 9 Blower
- 10 Pre-resistance for blower
- 11 Main fuse box
 - Fuse 5 : 8 amps (standard fuse 86)
 - Fuse 10 : 16 amps
 - Fuse 12 : 8 amps
 - Fuse c : 16 amps
- 12 Additional fuse for amplifier (2 amps)
- 13 Relay air conditioning system
- 14 Relay auxiliary fan
- 15 Auxiliary fan
- 16 Temperature switch 100 °C (212 °F)
in thermostat housing for auxiliary fan
- 17 Temperature switch 62 °C (142 °F)
in receiver dehydrator for auxiliary fan
- 18 Double contact relay
- 19 Vacuum switch
(main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
- 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
- 21 Temperature switch for heating water pump (22)
16 °C (61 °F) ON, 26 °C (79 °F) OFF
- 22 Heating water pump
- 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 24 ETR-switch 2 °C (36 °F)
- 25 Pressure switch refrigerant compressor
ON 2.6 bar gauge pressure (2.6 atü)
OFF 2.0 bar gauge pressure (2.0 atü)
- 26 Switchover valve for constant speed (engine 110.984 only)
- 27 Electromagnetic clutch for refrigerant compressor
- 28 Switchover valve for vacuum element of legroom flaps
- 29 Switchover valve for vacuum element of fresh air-recirculated air flap
- 30 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 84 Diode
 - a Cable connector starter terminal 50
 - b Starter lockout and back-up lamp switch
 - c Ignition starter switch terminal 50
 - d Via relay ignition switchover terminal 85 engine
 - e Via relay decoupling terminal 30 110.984 only
 - f Via relay ignition switchover terminal 87a (countries with emission control)
 - g Via relay ignition switchover terminal 30 (countries with emission control)



Wiring diagram 11

Blower control, stage 1 "LO" (regulating valve in position 1)

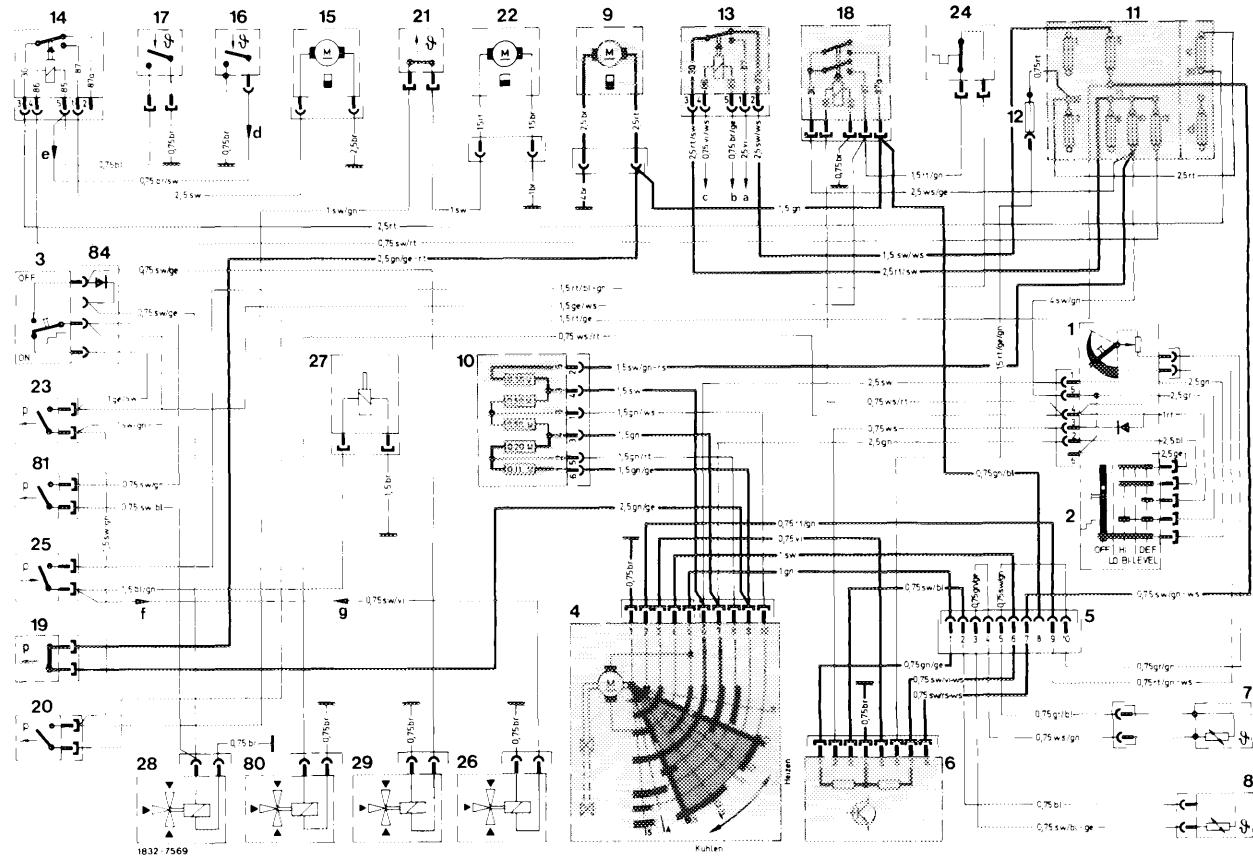
- 1 Temperature dial
- 2 Pushbutton switch
- 3 "ON/OFF" switch refrigerant compressor
- 4 Regulating valve
- 5 10-point plug connection for tester
- 6 Amplifier
- 7 In-car temperature sensor
- 8 Ambient temperature sensor
- 9 Blower
- 10 Pre-resistance for blower
- 11 Main fuse box
 - Fuse 5 : 8 amps (standard fuse 86)
 - Fuse 10 : 16 amps
 - Fuse 12 : 8 amps
 - Fuse c : 16 amps
- 12 Additional fuse for amplifier (2 amps)
- 13 Relay air conditioning system
- 14 Relay auxiliary fan
- 15 Auxiliary fan
- 16 Temperature switch 100 °C (212 °F)
in thermostat housing for auxiliary fan
- 17 Temperature switch 62 °C (142 °F)
in receiver dehydrator for auxiliary fan
- 18 Double contact relay
- 19 Vacuum switch
(main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
- 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
- 21 Temperature switch for heating water pump (22)
16 °C (61 °F) ON, 26 °C (79 °F) OFF
- 22 Heating water pump
- 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 24 ETR-switch 2 °C (36 °F)
- 25 Pressure switch refrigerant compressor
ON 2.6 bar gauge pressure (2.6 atü)
OFF 2.0 bar gauge pressure (2.0 atü)
- 26 Switchover valve for constant speed (engine 110.984 only)
- 27 Electromagnetic clutch for refrigerant compressor
- 28 Switchover valve for vacuum element of legroom flaps
- 29 Switchover valve for vacuum element of fresh air-recirculated air flap
- 30 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 84 Diode
 - a Cable connector starter terminal 50
 - b Starter lockout and back-up lamp switch
 - c Ignition starter switch terminal 50
 - d Via relay ignition switchover terminal 85 engine
 - e Via relay decoupling terminal 30 110.984 only
 - f Via relay ignition switchover terminal 87a (countries with emission control)
 - g Via relay ignition switchover terminal 30 (countries with emission control)



Wiring diagram 12

Blower control, stage 2 "LO" (regulating valve in position 2)

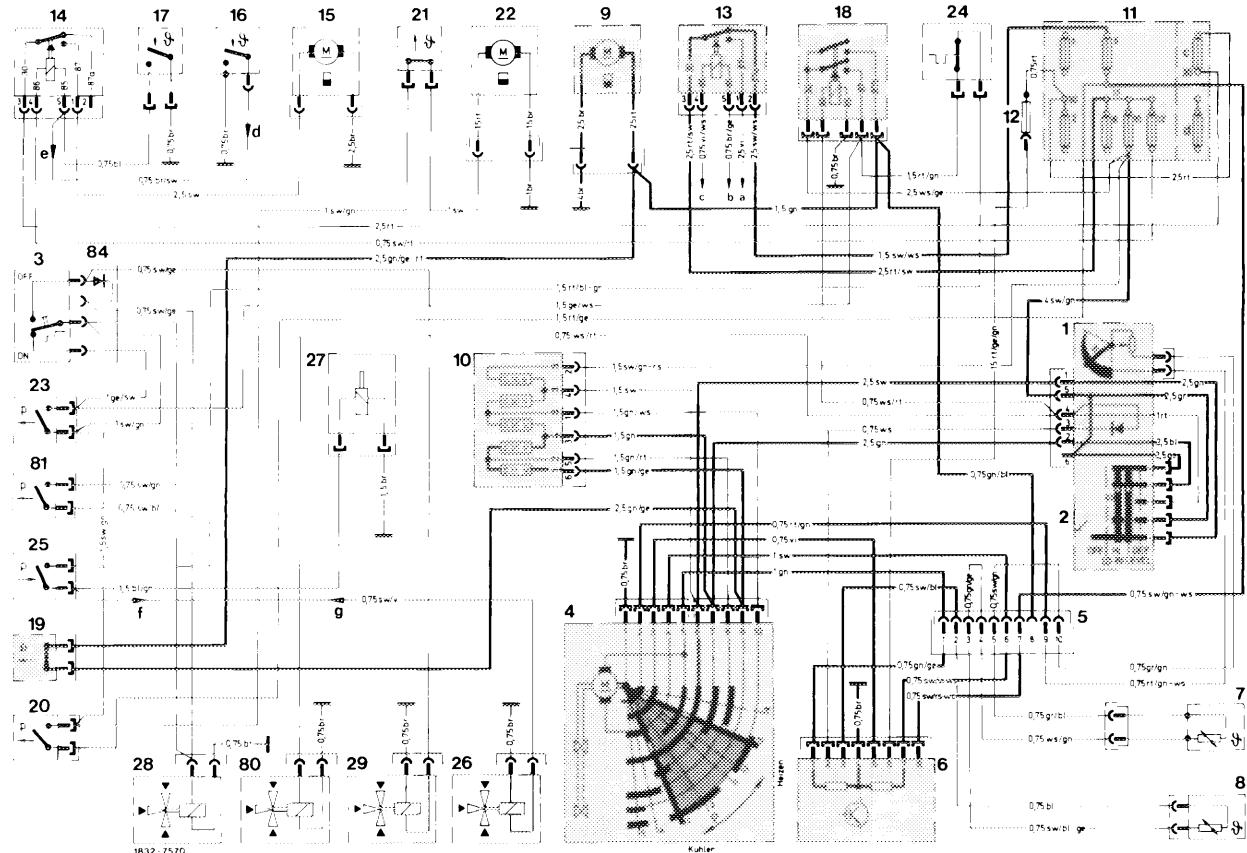
1 Temperature dial	20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
2 Pushbutton switch	21 Temperature switch for heating water pump (22 16 °C (61 °F) ON, 26 °C (79 °F) OFF
3 "ON/OFF" switch refrigerant compressor	22 Heating water pump
4 Regulating valve	23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
5 10-point plug connection for tester	24 ETR-switch 2 °C (36 °F)
6 Amplifier	25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atü) OFF 2.0 bar gauge pressure (2.0 atü)
7 In-car temperature sensor	26 Switchover valve for constant speed (engine 110.984 only)
8 Ambient temperature sensor	27 Electromagnetic clutch for refrigerant compressor
9 Blower	28 Switchover valve for vacuum element of legroom flaps
10 Pre-resistance for blower	29 Switchover valve for vacuum element of fresh air-recirculated air flap
11 Main fuse box	80 Switchover valve "BI-LEVEL" (at "DEF")
Fuse 5 : 8 amps (standard fuse 86)	81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
Fuse 10 : 16 amps	84 Diode
Fuse 12 : 8 amps	a Cable connector starter terminal 50
Fuse c : 16 amps	b Starter lockout and back-up lamp switch
12 Additional fuse for amplifier (2 amps)	c Ignition starter switch terminal 50
13 Relay air conditioning system	d Via relay ignition switchover terminal 85
14 Relay auxiliary fan	e Via relay decoupling terminal 30 } 110.984 only
15 Auxiliary fan	f Via relay ignition switchover terminal 87a } (countries with
16 Temperature switch 100 °C (212 °F) in thermostat housing for auxiliary fan	g Via relay ignition switchover terminal 30 } emission control
17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan	
18 Double contact relay	
19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)	



Wiring diagram 13

Blower control, stage 3 "LO" (regulating valve in position 3)

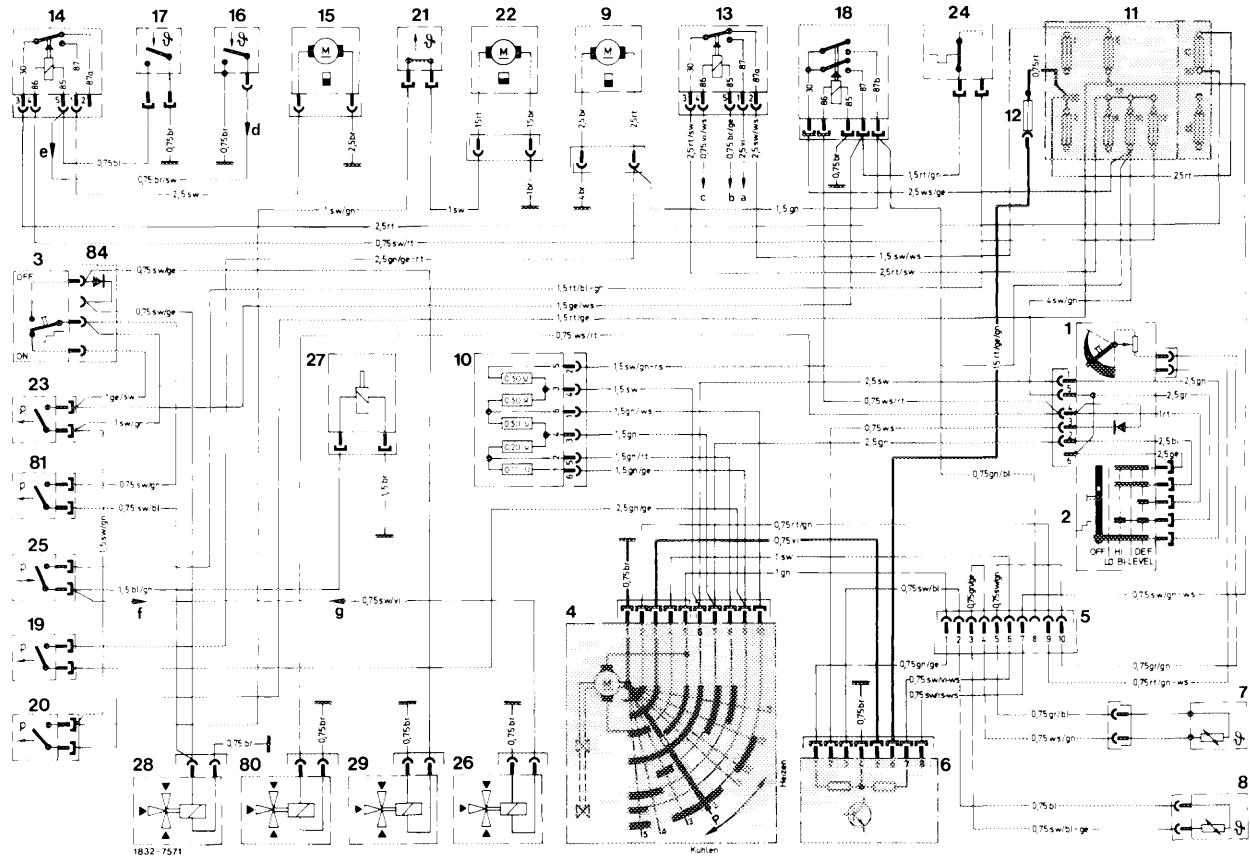
- 1 Temperature dial
- 2 Pushbutton switch
- 3 "ON/OFF" switch refrigerant compressor
- 4 Regulating valve
- 5 10-point plug connection for tester
- 6 Amplifier
- 7 In-car temperature sensor
- 8 Ambient temperature sensor
- 9 Blower
- 10 Pre-resistance for blower
- 11 Main fuse box
 - Fuse 5 : 8 amps (standard fuse 86)
 - Fuse 10 : 16 amps
 - Fuse 12 : 8 amps
 - Fuse c : 16 amps
- 12 Additional fuse for amplifier (2 amps)
- 13 Relay air conditioning system
- 14 Relay auxiliary fan
- 15 Auxiliary fan
- 16 Temperature switch 100 °C (212 °F) in thermostat housing for auxiliary fan
- 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
- 18 Double contact relay
- 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
- 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
- 21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
- 22 Heating water pump
- 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 24 ETR-switch 2 °C (36 °F)
- 25 Pressure switch refrigerant compressor
 - ON 2.6 bar gauge pressure (2.6 atü)
 - OFF 2.0 bar gauge pressure (2.0 atü)
- 26 Switchover valve for constant speed (engine 110.984 only)
- 27 Electromagnetic clutch for refrigerant compressor
- 28 Switchover valve for vacuum element of legroom flaps
- 29 Switchover valve for vacuum element of fresh air-recirculated air flap
- 80 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
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Wiring diagram 14

Blower control, stage 1 "HI" and "BI-LEVEL", (regulating valve in position 3 "heating" to position 3 "cooling")

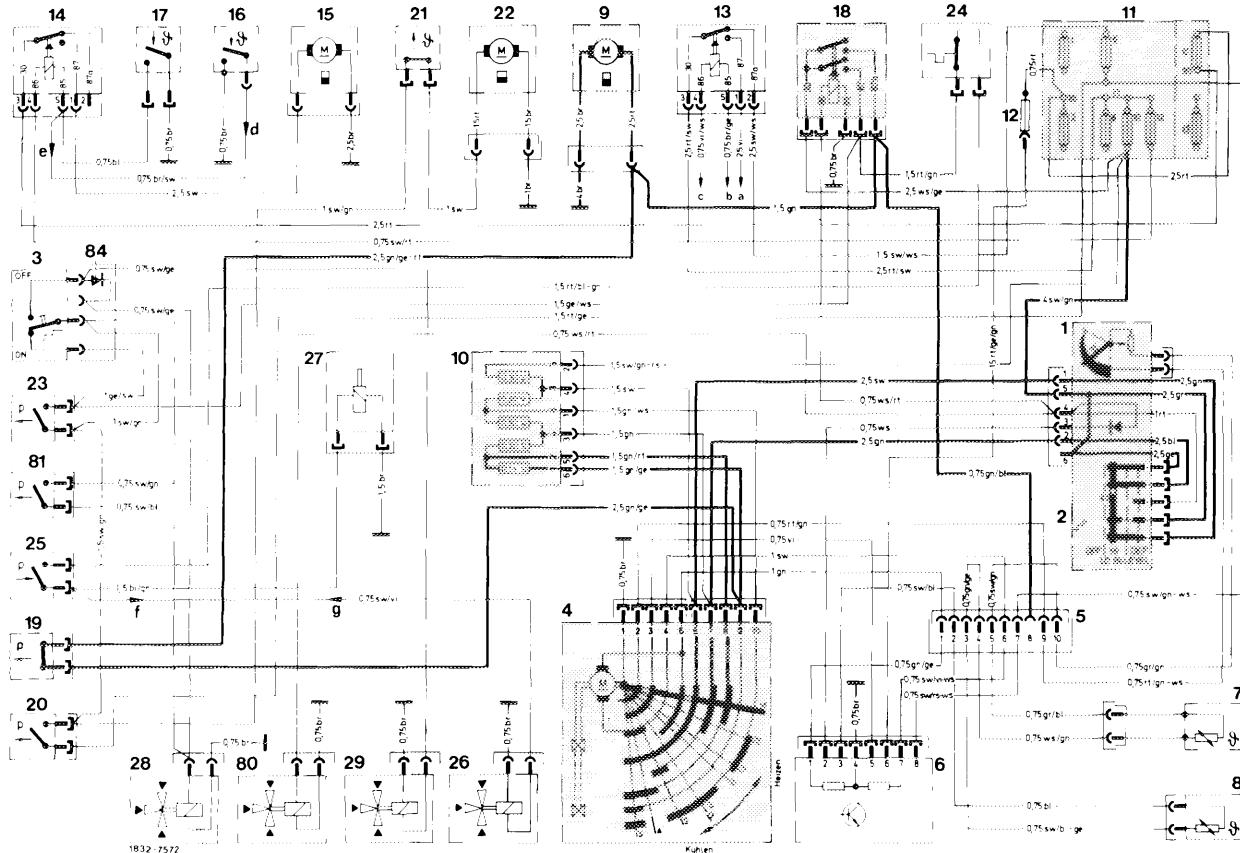
- 1 Temperature dial
- 2 Pushbutton switch
- 3 "ON/OFF" switch refrigerant compressor
- 4 Regulating valve
- 5 10-point plug connection for tester
- 6 Amplifier
- 7 In-car temperature sensor
- 8 Ambient temperature sensor
- 9 Blower
- 10 Pre-resistance for blower
- 11 Main fuse box
 - Fuse 5 : 8 amps (standard fuse 86)
 - Fuse 10 : 16 amps
 - Fuse 12 : 8 amps
 - Fuse c : 16 amps
- 12 Additional fuse for amplifier (2 amps)
- 13 Relay air conditioning system
- 14 Relay auxiliary fan
- 15 Auxiliary fan
- 16 Temperature switch 100 °C (212 °F)
in thermostat housing for auxiliary fan
- 17 Temperature switch 62 °C (142 °F)
in receiver dehydrator for auxiliary fan
- 18 Double contact relay
- 19 Vacuum switch
(main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
- 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
- 21 Temperature switch for heating water pump (22)
16 °C (61 °F) ON, 26 °C (79 °F) OFF
- 22 Heating water pump
- 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 24 ETR-switch 2 °C (36 °F)
- 25 Pressure switch refrigerant compressor
ON 2.6 bar gauge pressure (2.6 atü)
OFF 2.0 bar gauge pressure (2.0 atü)
- 26 Switchover valve for constant speed (engine 110.984 only)
- 27 Electromagnetic clutch for refrigerant compressor
- 28 Switchover valve for vacuum element of legroom flaps
- 29 Switchover valve for vacuum element of fresh air-recirculated air flap
- 80 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 84 Diode
 - a Cable connector starter terminal 50
 - b Starter lockout and back-up lamp switch
 - c Ignition starter switch terminal 50
 - d Via relay ignition switchover terminal 85 engine
 - e Via relay decoupling terminal 30 110.984 only
 - f Via relay ignition switchover terminal 87a (countries with emission control)
 - g Via relay ignition switchover terminal 30 emission control



Wiring diagram 15

Regulating valve control (ignition off, regulating valve in position "P 2")

- 1 Temperature dial
- 2 Pushbutton switch
- 3 "ON/OFF" switch refrigerant compressor
- 4 Regulating valve
- 5 10-point plug connection for tester
- 6 Amplifier
- 7 In-car temperature sensor
- 8 Ambient temperature sensor
- 9 Blower
- 10 Pre-resistance for blower
- 11 Main fuse box
 - Fuse 5 : 8 amps (standard fuse 86)
 - Fuse 10 : 16 amps
 - Fuse 12 : 8 amps
 - Fuse c : 16 amps
- 12 Additional fuse for amplifier (2 amps)
- 13 Relay air conditioning system
- 14 Relay auxiliary fan
- 15 Auxiliary fan
- 16 Temperature switch 100 °C (212 °F) in thermostat housing for auxiliary fan
- 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
- 18 Double contact relay
- 19 Vacuum switch
 - (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
- 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
- 21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
- 22 Heating water pump
- 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 24 ETR-switch 2 °C (36 °F)
- 25 Pressure switch refrigerant compressor
 - ON 2.6 bar gauge pressure (2.6 atu)
 - OFF 2.0 bar gauge pressure (2.0 atu)
- 26 Switchover valve for constant speed (engine 110.984 only)
- 27 Electromagnetic clutch for refrigerant compressor
- 28 Switchover valve for vacuum element of legroom flaps
- 29 Switchover valve for vacuum element of fresh air-recirculated air flap
- 80 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 84 Diode
 - a Cable connector starter terminal 50
 - b Starter lockout and back-up lamp switch
 - c Ignition starter switch terminal 50
 - d Via relay ignition switchover terminal 85 } engine
 - e Via relay decoupling terminal 30 } 110.984 only
 - f Via relay ignition switchover terminal 87a } (countries with emission control)
 - g Via relay ignition switchover terminal 30 }



Wiring diagram 16

Blower control, stage 2 "HI" (regulating valve in position 4)

- 1 Temperature dial
- 2 Pushbutton switch
- 3 "ON/OFF" switch refrigerant compressor
- 4 Regulating valve
- 5 10-point plug connection for tester
- 6 Amplifier
- 7 In-car temperature sensor
- 8 Ambient temperature sensor
- 9 Blower
- 10 Pre-resistance for blower
- 11 Main fuse box
 - Fuse 5 : 8 amps (standard fuse 86)
 - Fuse 10 : 16 amps
 - Fuse 12 : 8 amps
 - Fuse c : 16 amps
- 12 Additional fuse for amplifier (2 amps)
- 13 Relay air conditioning system
- 14 Relay auxiliary fan
- 15 Auxiliary fan
- 16 Temperature switch 100 °C (212 °F)
in thermostat housing for auxiliary fan
- 17 Temperature switch 62 °C (142 °F)
in receiver dehydrator for auxiliary fan
- 18 Double contact relay
- 19 Vacuum switch
(main switch, closes with vacuum higher than
175 mbar or 0.18 atu)
- 20 Vacuum switch (refrigerant compressor, closes with
vacuum higher than 78.5 mbar or 0.08 atu)
- 21 Temperature switch for heating water pump (22)
16 °C (61 °F) ON, 26 °C (79 °F) OFF
- 22 Heating water pump
- 23 Vacuum switch (for refrigerant compressor, closes
with vacuum higher than 78.5 mbar or 0.08 atu,
at "BI-LEVEL" only)
- 24 ETR-switch 2 °C (36 °F)
- 25 Pressure switch refrigerant compressor
ON 2.6 bar gauge pressure (2.6 atü)
OFF 2.0 bar gauge pressure (2.0 atü)
- 26 Switchover valve for constant speed (engine 110.984 only)
- 27 Electromagnetic clutch for refrigerant compressor
- 28 Switchover valve for vacuum element of legroom flaps
- 29 Switchover valve for vacuum element of fresh
air-recirculated air flap
- 80 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (closes with vacuum higher than
78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
- 84 Diode
- a Cable connector starter terminal 50
- b Starter lockout and back-up lamp switch
- c Ignition starter switch terminal 50
- d Via relay ignition switchover terminal 85 } engine
- e Via relay decoupling terminal 30 } 110.984 only
- f Via relay ignition switchover terminal 87a } (countries with
g Via relay ignition switchover terminal 30 emission control)